

∕∂SN

D-P5DWL type is available from ø40 up to ø100 only

• There are other applicable auto switches other than the listed above. For details, refer to page 7-6-23.

For details about auto switches with pre-wire connector, refer to page 7-9-36.

7-6-2



JIS Symbol **JIS Symbol** Double acting, With boss in Single rod head side

Standard Stroke

Pneumatic

Bore size (mm)	Standard stroke (mm)
12, 16	5, 10, 15, 20, 25, 30
20, 25	5, 10, 15, 20, 25, 30, 35, 40, 45, 50
32, 40	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100
50 to 100	10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100

• When stroke exceeds the standard range, refer to page 7-6-121.

Air-hydro

Bore size (mm)	Standard stroke (mm)
20, 25	5, 10, 15, 20, 25, 30, 35, 40, 45, 50
32, 40	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100
50, 63 80, 100	10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100

Mounting Bracket Part No.

	0						
Bore size (mm)	Foot (4)	Flange	Double clevis (5)				
12	CQ-L012	CQ-F012	CQ-D012				
16	CQ-L016	CQ-F016	CQ-D016				
20	CQ-L020	CQ-F020	CQ-D020				
25	CQ-L025	CQ-F025	CQ-D025				
32	CQ-L032	CQ-F032	CQ-D032				
40	CQ-L040	CQ-F040	CQ-D040				
50	CQ-L050	CQ-F050	CQ-D050				
63	CQ-L063	CQ-F063	CQ-D063				
80	CQ-L080	CQ-F080	CQ-D080				
100	CQ-L100	CQ-F100	CQ-D100				
∧ Note 4) When ordering foot bracket order 2							

pieces per cylinder.

Note 5) Parts belonging to each bracket are as follows. Foot, Flange: Body mounting bolt/Double clevis: Clevis pin, Type C snap ring for axis, body mounting bolt

Compact Cylinder: Standard Type Double Acting, Single Rod Series CQ2

Ту	vpe		-	\sim									
	Bore	size (mm)	12	16	20	25	32	40	50	63	80	100	
Through-hole (Stan		Through-hole (Standard)						•		•		•	
	Mounting	Both ends tapped style	urd) •			•			•				
	Built-in	magnet						•					
Pneumatic	Piping	Screw-in type	-	-	-	M5 x 0.8	(1) M5 x 0.8 Rc 1/8	Rc 1/8	Rc 1/4	Rc 1/4	Rc 3/8	Rc 3/8	
Pne		Built-in One-touch fittings	_	_	_		ø6/4 ⁽²⁾	ø6/4	ø8/6	ø8/6	_	_	
	Rod end	d male thread	•	•	•		•	•			•	•	CUJ
With rubber bumper													
	With bo	ss in head side	•					•	•	•		•	CU
Through-hole		Through-hole (Standard)	_				•	•		•		•	
	Mounting	Both ends tapped style	—	—		•		•		•			CQS
은 Built-in magnet		magnet	_				•	•					CQM
Air-hydro	Piping	Screw-in type			M5 x	M5 x	(1) M5 x 0.8	Rc	Rc	Rc	Rc	Rc	CON
Ä	i iping	Sciew-in type			0.8	0.8	Rc 1/8	1/8	1/4	1/4	3/8	3/8	CQ2
	Rod end male thread		—	-									
	With bo	ss in head side	—										RQ

Note 1) In the case of without auto switch, M5 x 0.8 is used for 5 stroke only.

Note 2) In the case of built-in fitting, the 5 mm stroke with ø32 bore is the same external dimensions as 10 mm stroke.

Specifications

Туре	Pneumatic (Non-lube)	Air-hydro			
Fluid	Air	Turbine oil ⁽³⁾			
Proof pressure	1.5	MPa			
Maximum operating pressure	1.0	MPa			
Ambient and fluid temperature	Without auto switch: -10 to 70°C (No freezing)Air-hydWith auto switch: -10 to 60°C (No freezing)5 to 60°C				
Rubber bumper	None —				
Rod end thread	Female thread				
Rod end thread tolerance	JIS class 2				
Stroke length tolerance	+1.0				
Mounting	Through-hole				
Piston speed	50 to 500 mm/s 5 to 50 mm/s				

Note 3) For caution on handling, refer to page 7-13-6. * For applications involving lateral loads, refer to anti-lateral load type on page 7-13-132.

Minimum Operating Pressure

Minimum Operating Pressure (MPa)									(MPa)	
Bore size (mm)	12	16	20	25	32	40	50	63	80	100
Pneumatic (Non-lube)	0.	07	0.05							
Air-hydro			0.18 0.10			\sim				

Manufacture of Intermediate Stroke

Description	Spacer is installed stroke body.	in the standard	Exclusive body (-XB10)					
Part no.	Refer to "How to Orde model no. on page 7-		Suffix "-XB10" to the end of standar model no. on page 7-6-2.					
Description	Dealing with intermed 1 mm interval is a spacer with standard	vailable by úsing	Dealing with the stroke by the 1 mm interval by using an exclusive body with the specified stroke.					
	Bore size	Stroke range	Bore size	Stroke range				
	12, 16	1 to 29	12, 16	6 to 29				
Stroke range	20, 25	1 to 49	20, 25	6 to 49				
J	001 100	4 4- 00	32, 40	6 to 99				
	32 to 100	1 to 99	50 to 100	11 to 99				
Example	Part No.: CQ2B50- 18 mm width space the standard CQ2E B dimension is 115	er is installed in 850-75D.	Part no. CQ2B50- Makes 57 stroke t B dimension is 97	ube.				

Air-hydro type is excluded

Magsv

In the case of spacer type, intermediate stroke with damper for ø40 to ø100, it can be manufactured by 5 mm intervals in 5 mm and 55 to 95 mm.

In the case of an exclusive body with ø32 to ø100 (-XB10) with the stroke length exceeding 50 mm, the reference values of the longitudinal dimension will be changed. Calculate length dimensions by deducting from

Regarding the long stroke which exceeds the stroke range, refer to page 7-6-121 for the long stroke type of either CQ2 or CQS.

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20-

Data